CELEBRATING 25 Years CITIZEN SCALES (I) PVT. LTD.

Citizen®

ISO 9001 : 2008 CERTIFIED

Jewellery Equipments Catalogue

Hallmarking | Welding | Testing | Weighing

Turning Technology into Solutions

www.jewellerytool.com

मानक पथप्रदर्शक

Hallmarking Centres

About Us

About Us
Citizen Started in 1987 by Mr. Chandrakant V. Shah (Chairman) as Small Weighing Scale Trading Company. Today Citizen is one of the global player having its own indigenous Manufacturing Unit with in-house Research & Development team.

One more time repetition of history begins with jewellery equipments under CITIZEN Banner. The journey begins only with XRF Gold Purity Machine in IIJS-07 & today CITIZEN is proudly owner of Germany Technology for manufacturing Gold Purity Machine. Apart from Gold Purity Machine Citizen having Technological tie up of World's best Jewellery equipment products like Fiber Laser Markers, Desktop Laser Spot Welding Machines, Engraving Products, Ultrasonic Cleaners.

Today many of world's most successful Jewellery brands rely on us for its world class production line up.

Citizen with team of +200 professionals serving globally to many industries.

Thanks to advance technological breakthrough Citizen is exporting more than 70 countries worldwide including USA, Europe, South East Asia etc.

Achievement
We are currently exclusive equipment supplier for Tanishq-TATA, Reliance Jewels, Gitanjali Group, Malabar Gold, Orra, etc.

Citizen is successfully launching state-of - the - art little genius ***"Cube"*** in IIJS-12, small in size, big in chamber, a Value for money product.

Citizen has already given solution for setup of +20 Hallmarking centers.

Citizen got CE approval in 2010 for its weighing balance range.

Citizen has launched Small, Smart, Superb Laser Marker with Fiber Technology & advanced features.

Citizen is 1st Company in Asia to launch Desktop Laser Welding Machine with power of 160 J.

Citizen got BIS approved License in 2010 and register supplier for DGSND & RRSL for its weighing scale products in 2010.

Citizen has launched unique high end Mono-tech technology (Weighing Sensor) to match the highest standard, for Weighing.

Citizen is the only company in India to start with Micro Balance & within span of 5 years we have install +100 micro balance in India.

Vision
We will be globally respected company in the field of Weighing & Jewellery Equipments.

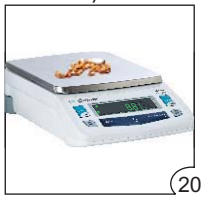
Mission
Strategic partnership for building tomorrow's Enterprise.

Integrity & Transparency
To be ethical, sincere & open in all our transaction.

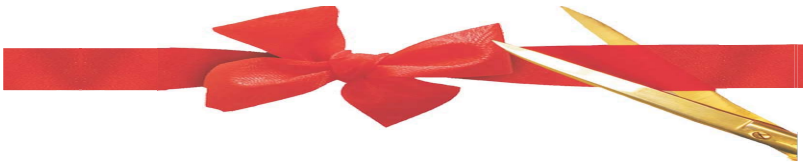
Excellence
To strive relentlessly constantly improve ourselves, our teams, our service & our products to become the best.

Innovations
We can inject a level of product & service innovation into your business to create new revenue opportunities through collaboration & co-creation. Foundation of our innovation capabilities is our core research & developments network & their new thoughts.

Client Value
To surprise clients expectation consistently.

Gold Testing 3
Gold Testing 4
Fiber Laser 6
Laser Welder 8
Laser Welder 10
Karat Tester 11
Ring Engraving 12
Multi Engraving 13
Melter 14
Ultrasonic Cleaner 15
Micro Balance 16
Analytical Balance 17
Carat Balance 18
Jewellery Balance  20
Jewellery Balance 21
Silver Scales 22
Accessories 23
Precious Clients 24

Gold Testing Machine
Cube



GERMAN TECHNOLOGY

KARAT TESTER™

Hallmarking Centres

Gold Jewellery

Plating / Coating Thickness Analyzer

Banks

Small in size
Perfect in Result...

Technology
Gas filled Prop Counter X-ray Fluorescence Technology.

Fast
Ultra fast detection system for quick results.

Non-destructive
The analysis performed non-contact and non - destructive within 35 sec. to 3 minute.

Accurate
This system is based on x-ray radiation technology with modern user friendly software which ensure accurate measurement.

Size
Cube is very small in size, thanks to smart design which enables this machine fit at any place from smallest showroom to busy business area.

MODEL	Cube
X-ray Tube	Mini-focus, high performance, W-target, Spot 0.2mm-0.8mm
High Voltage	50kV (1.2mA) Current Software Control Optimized
Detector	High resolution gas filled prop counter
Measurement Time	35 sec. to 180 sec.
Collimator	Single fixed Collimator 0.3mmØ or 0.5mm Ø
Inside Chamber	330 x 200 x 170 mm (WxDxH)
Sample Storage	Manual scissors type z-stage
Power Supply	230VAC, 50/60Hz, 120W / 100W
Dimension	360 x 350 x 310 mm (WxDxH)
Weight	27 kg

Calibration
Pre-calibrated for Gold and other precious metals.

Ease
Cube is very user friendly & easy to operate. Doesn't require special person to operate. Simply position the piece of interest with the aid of a video microscope and start the measurement. The analysis is performed non-contact and non-destructive in less than 35 sec. to 3 minute.

Software
The ***Cube*** is equiped with modern, user friendly software and exact evaluation algorism, is the proper analyser for precisely calculating the composition of solid pieces of jewellery, precious coins and other precious metals. It also includes data acquisition, management, Peak Identification, Spectrum analysis, Quantitative composition analysis, report generator, statistical data control, storage & printing.

Gold Testing Machine

Compact ECO / Si-Pin

KARAT TESTER™

GERMAN TECHNOLOGY

Hallmarking Centres

Gold Jewellery

Plating / Coating Thickness Analyzer

Banks

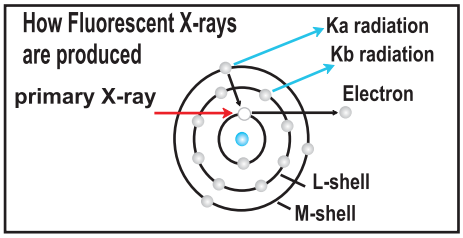
+1350 Satisfied
Installation within Asia

Fast
Ultra fast detection system for quick results.

Accurate
This system is based on x-ray fluorescent radiation technology with modern user friendly software which ensure accurate measurement.

Non-destructive
The analysis performed non-contact and non-destructive in about 1 minute

Principal of X-Ray Measurement
High energy photons emitted by a X-ray tube interact with metal. The high energy photon is absorbed by an electron of the atom. This electron is accelerated and forced to leave the atom. The so created hole in the structure of the electron shell is filled up by an electron of higher energy. The difference in energy between the leaving electrons position and the filling up electron may leave the atom as a photon of defined energy or as an electron. In the case of a leaving photon this process is called X-ray fluorescent and the energy of the leaving photon is characteristic for this atom therefore for the element. The electron shells of an atom are called.
K-, L-, M-shell. Filling up a hole in the K-Shell creates. K-radiation (Ka if the filling up electron has is origin in the L-shell, Ka if the filling up electron has is origin in the M-shell). Filling up a hole in the L-shell creates L-radiation and so on. Only K and L radiation is on interest because the energy of K and L radiation is in the region which can be detected with standard detectors.



Technology
Compact Eco is based on Gas filled prop counter for measuring most common alloys including gold for jewellery industry.

Compact Eco Si-Pin is based on high resolution silicon detector which is ultimate for alloys analyzing for jewellery industry including gold & silver, even one step ahead for accuracy & repeatability compare to Gas filled pro counter.

Calibration
Pre-calibrated for Gold and other precious metals.

Ease
This machine are very user friendly & easy to operate doesn't require special person to operate. Simply position the piece of interest with the aid of a video microscope and start the measurement. The analysis is performed non-contact and non-destructive within 35 sec. to 3 minutes.

Coating Thickness
Standard module available for measuring coating thickness. Specially useful for plating & electronic industry.

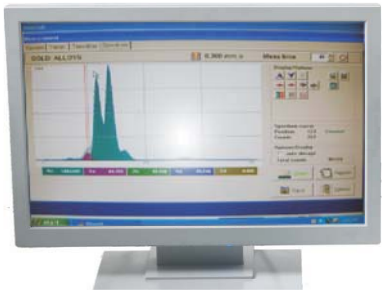
Advantages
ComPact eco is affordable precious metal analyzer with high precision.

ComPact eco PIN with the usage of a high-resolution silicon detector in conjunction digital signal processing Achieves best detection limits and highest precision. Based on an about four times better resolution (in comparison with conventional technique) the element separation is much better.
Furthermore lowest detection limits are Achieved because of better signal to noise ratio.

Safety
A major task of the operating software is to assure the complete safety in the operation of the X-ray system. This includes the control of all the various safety interlocks and functions needed for the German Government approval and license as a fully fail-safe closed beam instrument.

X-MasteR is the user-friendly operating software for the modern suit of X-ray systems. This program used most modern software tools available for Windows® operating platforms. The main task of the operating software is the control of all system parameters such as high voltage settings, X-ray tube current, display of collimators and filters as well as the collection and manipulation of the measurement data.

Capability
- Empirical calibration mode for calibrating unit using well assayed standard samples.
- Fundamental calibration mode for standard free calibrations.
- Pre-Calibrations for major yellow and white Gold alloys (optional other precious alloys).
- Simultaneous quantitative measurement up to 8 elements.
- Qualitative material identification up to 20 elements.
- Spectrum analysis for semi-quantitative concentration measurement.
- Statistical functions with mean value, standard deviation, high/low reading, trend line etc.



MODEL	Compact Eco Pin (Si-Pin)	Compact Eco
X-ray Tube	Long Life, High efficiency tungsten target, air cooled	Min-focus, high performance, W-target, Spot 0.2mm-0.8mm
High Voltage	50kV / (1.2mA) programmable	50kV (1.2mA) Current Software Control Optimized
Detector	High resolution silicon detector in conjunction with digital signal processing. Pin Diode, 25mm^2 with Digital Pulse Processor	High resolution gas filled prop counter
Radiation Safety	PTB tested, Complies with German regulations for highest safety	
Measurement Time	35 sec. to 180 sec.	
Collimator	Single Collimator 0.5mmØ	Single Collimator 0.3mmØ
Inside Chamber	H 35cm, B 40cm, D 60cm	
Sample Storage	Manual scissors type z-stage, Optional motorized z-stage with Auto focus facility	
Power Supply	230VAC, 50/60Hz, 120W / 100W	
Dimension	400 x 600 x 350mm (WxDxH)	
Weight	40 kg	

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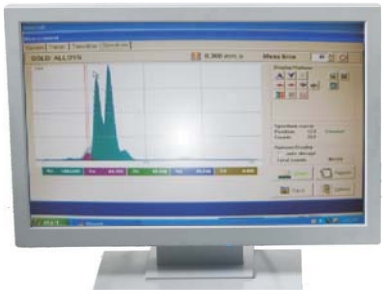

MODEL	Compact Eco Pin (Si-Pin)	Compact Eco
X-ray Tube	Long Life, High efficiency tungsten target, air cooled	Min-focus, high performance, W-target, Spot 0.2mm-0.8mm
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Detector	High resolution silicon detector in conjunction with digital signal processing. Pin Diode, 25mm^2 with Digital Pulse Processor	High resolution gas filled prop counter
Radiation Safety	PTB tested, Complies with German regulations for highest safety	
Measurement Time	35 sec. to 180 sec.	
Collimator	Single Collimator 0.5mmØ	Single Collimator 0.3mmØ
Inside Chamber	H 35cm, B 40cm, D 60cm	
Sample Storage	Manual scissors type z-stage, Optional motorized z-stage with Auto focus facility	
Power Supply	230VAC, 50/60Hz, 120W / 100W	
Dimension	400 x 600 x 350mm (WxDxH)	
Weight	40 kg	

Fiber Laser Marker

CFM 10 / 20

Hallmarking Centres

- Small
- Smart
- Superb

Applications :-

- Jewellery Hallmarking Centres
- Jewellery Factories
- Hardware Tools
- Electronics Components
- Auto Parts • Medical Equipments
- Mobile & Accessories
- Clock & Watches
- Plating coating materials
- Spray Material
- Plastic
- Rubber
- Epoxy Resin
- Ceramic
- Translucent Plastic Keys
- Electronic Components
- Integrated Circuits (IC)
- Spectacles
- Metal Industry

State-of-the Art Technology
Based on Ytterbium Fiber Laser technology Which is highly reliable laser source.

Marking
Able to mark all metal and some non-metal materials. marking minimum lines width of 0.03 mm, minimum height of 0.3 mm for english characters and depth of up to 1mm.

Flexibility
Optional Motorised Rotary Marking Device for accurate & continuous 360° marking inside or outside bangles & Rings.

Compatibility
WINDOWS based marking software, able to read CORELDRAW, AUTOCAD, PHOTOSHOP and other commonly used graphic files, such as AI, PLT, DXF, BMP, JPEG.

Ease
Support for auto-coding, serial number, batch number, date bar code and two dimensional codes.

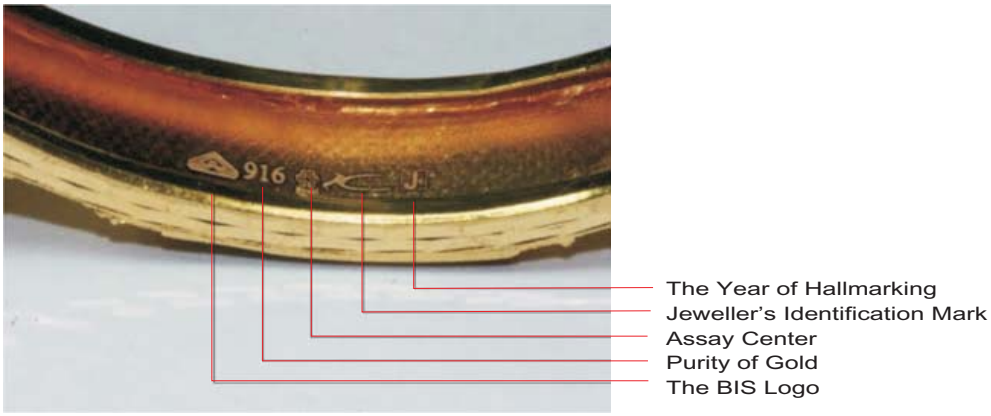
Dependability
Sturdy frame structure for lowest vibration and trouble free operation makes it ideal for continues operation like Hallmarking Centers & Jewellery Factories.

Convenience
Low power consumption of below 800W makes this machine most energy savings.

Compact
Ergonomically designed & can easily connect with Laptop (Optional), make this machine very compact & can be placed on desktop, taking up a small working space.

Low Maintenance
Complete enclosed laser module design with the Optical fiber transmission pump light source & air cooling systems, which offers better protection for the laser devices hence reducing the failure rate.

Best Choice
CFM 10 / 20 is currently the best choice for the Industries who require deep and fine marking at a fastest speed.



Marking Sample

MODEL	CFM 10	CFM 20
Laser Source	YTTERBIUM PULSED FIBER LASER	YTTERBIUM PULSED FIBER LASER
Laser Source Lifetime About	< 50,000 hours	< 50,000 hours
Maximum Laser Power	10 W	20 W
Wavelength (nm) (Min-Typ-Max)	1064nm	1064nm
Beam Quality M2 (Typ-Max)	M^2 < 1.6	M^2 < 1.6
Pulse repetition rate (Khz) (Min-Max)	20Hz - 100 Khz	20Hz - 100 Khz
Working Area (mm)	70 x 70	70 x 70
Optional Area (mm)	100 x 100 / 200 x 200	100 x 100 / 200 x 200
Marking Speed	<15000 mm/S	<15000 mm/S
Min. Width	0.03 mm	0.03 mm
Min. Character	0.3 mm	0.3 mm
Orientation Precision	0.002mm	0.002mm
Cooling	Air Cooling	Air Cooling
Average Power Consumption	500W	800W
Power	AC220 ± 10% / 50HZ/5A	AC220 ± 10% / 50HZ/5A
Dimension (mm)	680 x 200 x 450	680 x 200 x 450
Gross Weight	32 Kgs.	32 Kgs.

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Able to mark all metal and some non-metal materials. marking minimum lines width of 0.03 mm, minimum height of 0.3 mm for english characters and depth of up to 1mm.

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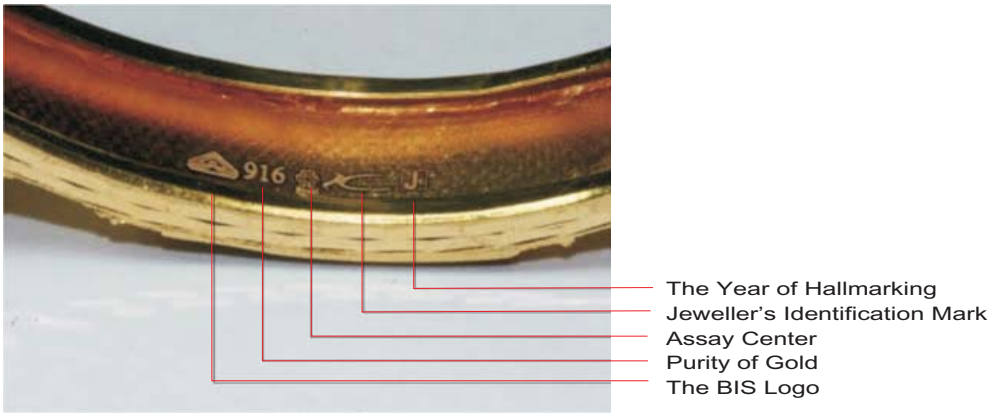

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Pulse repetition rate (Khz) (Min-Max)	20Hz - 100 Khz	20Hz - 100 Khz
Working Area (mm)	70 x 70	70 x 70
Optional Area (mm)	100 x 100 / 200 x 200	100 x 100 / 200 x 200
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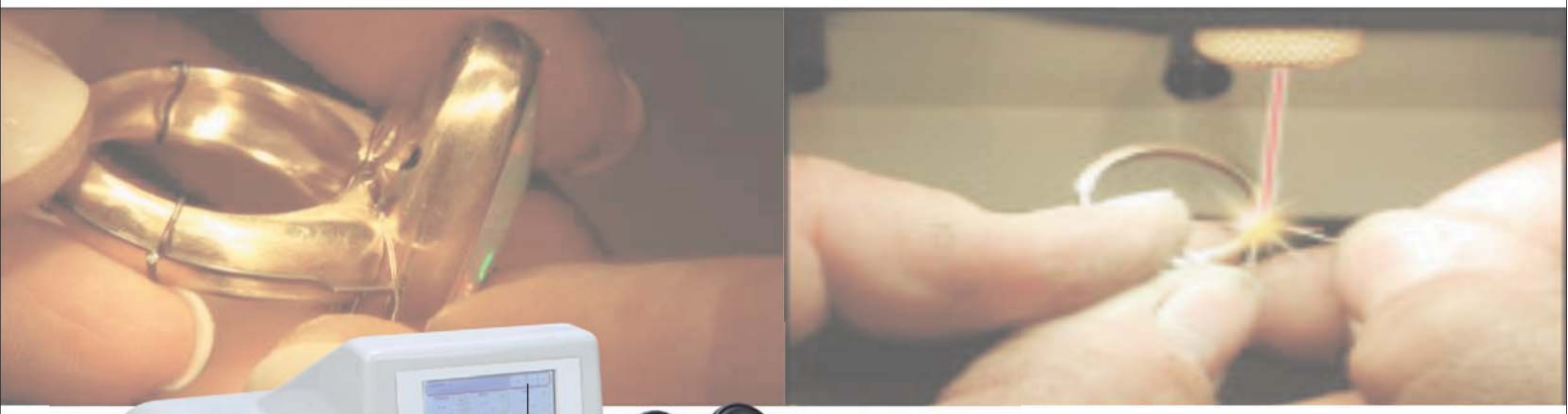
Desktop Laser Spot Welding
foRza



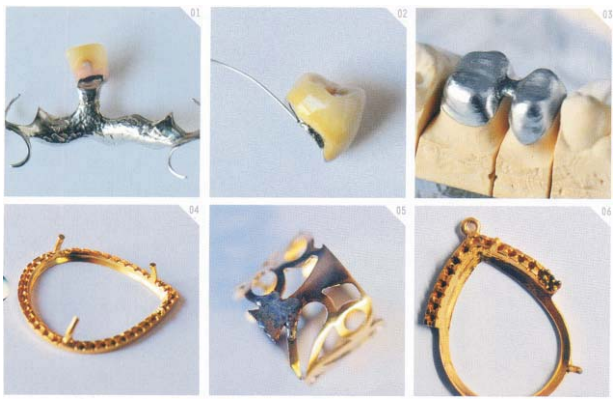
Simple and Intuitive
Adjustable touch Screen
display 123 x 68mm
100 memories parameters
storage cell with name
Multi-language display

High Quality
Stereomicroscope 10X by **Leica** Lens
45° inclination with UV ray and laser
radiation protection (for the eyes)
Higher brightness shutter

High Technology
New generation laser rail
Completely digital electronic
Powerful Cooling System
Inbuilt Standard Webcam
Which can connect to PC/Laptop

Ease Operation
Soft Arm Rest for easy
Long hours operations for operator

Ergonomically Design
Internal joystick to the welding chamber
Large chamber
Big inspection window
LED cold and white light in the chamber
allows continues hours of hassle free operations.



Welding Samples
1. Weld without burn the resin
2. Lengthening of the edges
3. Working directly on the models
4. Welding of pins
5. Repairs scratch and casting defect
6. Reconstruction of stones setting

Technology

Citizen has launched **FoRza** from a technological point of view. It takes a concentration of six year study in the electronic, optical and mechanical field. The new digital microprocessor, works 100 times faster than traditional systems, and is able to measure the high energy precisely, analysing it and sampling it every 100 micro seconds.

All of this makes Welder **FoRza** a powerful Welder laser, while at same time constant and very precise in the repetition of the shots.

Features

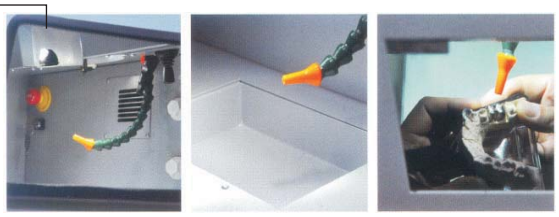
- It's the first laser controlled by a digital microprocessor (D.S.P.)
- Real time and automatic regulations of the power supply.
- Double light LCD Touch Screen shutter.
- 30 Hz frequency
- Automatic control of the laser lamp, with consequent automatic adjustment of the energy.
- Integrated **webcam**
- Better cooling chamber
- Powerful cooling system.

LASER APPLICATIONS

- Easily weld precious metals and other, including platinum, titanium, gold, silver and palladium.
- Repairs old jewellery perfectly.
- Repairs mounting without removing the stones.
- Repairs watches and other parts
- Welds the elements using weld materials, and leaves them clear, sharp and without the need to clean again.
- Repairs casting defects such as porosity or breakages, by simply welding those areas with solder wire.

The ideal laser for big factories and goldsmith

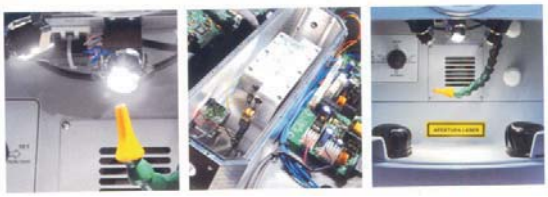
Powerful and accurate
6 preset pulse shaping programs
Gas argon nozzle directly on the welding point
Air nozzle for cooling pieces in the working chamber
Extractable drawer for the chamber cleaning
Suitable for high-productive cycles
Low noise and low maintenance
Easily welds precious or base metals, including silver



Inside Chamber

The ideal laser for goldsmith and dental laboratories

Easy to use
Small dimensions
Low noise and low maintenance
Suitable for high-productive cycles
Frontal and big doors
Easy to use for more operators
Spots controlled in size and energy
Welding with or without adding material



MODEL	FoRza-60	FoRza-100	FoRza-160
Maximum Laser Power	60 J @ 15mS	100J@20mS	160J@20mS
Peak Pulse-Power	4 Kw	5Kw	8Kw
Avg. Pulse-Power	55 W	65 W	85 W
Frequency of Repetition	0.5 to 30 Hz		
Spot Size	0.2 to 2.0 mm		
Microscope	10 x 45 binoculars by leica		
Program	6, preset		
Program Memory	cells 99		
Weight	40 kg		
Dimension (W x D x H)	70 x 50 x 50 cm		

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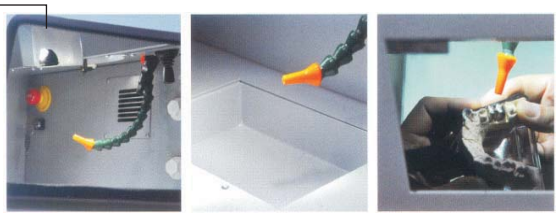

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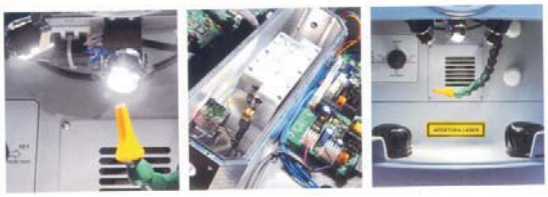
Welding with or without adding material



MODEL	FoRza-60	FoRza-100	FoRza-160
Maximum Laser Power	60 J @ 15mS	100J@20mS	160J@20mS
Peak Pulse-Power	4 Kw	5Kw	8Kw
Avg. Pulse-Power	55 W	65 W	85 W
Frequency of Repetition	0.5 to 30 Hz		
Spot Size	0.2 to 2.0 mm		
Microscope	10 x 45 binoculars by leica		
Program	6, preset		
Program Memory	cells 99		
Weight	40 kg		
Dimension (W x D x H)	70 x 50 x 50 cm		

Laser Spot Welding Machine

CML-W 150

Technology
The Principal of Laser welding machine for jewellery is thermal conduction, namely, the laser radiates the surface of the part, and the heat on the surface expands inside through heat conduction. by controlling parameters such as laser pulse width, energy, peak value and repeating frequency, the part will melt, and thus forming specific molten pools. Due to its unique benefit, the product has been successfully applied to gold and silver jewellery processing , and welding of small-sized parts and porosity filling.

Design
Personalized design for hassle free operation in compliance with ergonomics principles.

Dependibility
Sturdy Frame Structure For lowest vibration makes it, ideal for factory use & trouble free operation.

Ease
Upto 10 memories cells for storing working parameters permanently. Big Inside chamber for easy movement of big samples.

Advantages
- Fast, efficient, deep, quality welding.
- Welding points are free from pollution.
- Saves time & energy.

Application for Jewellery Industry :
- Joining of different metals.
- Repairing of Precious Items with temperature sensitive area close to Diamonds & Gems stones.
- Assembling of jewellery parts.
- Holes and porosity filling.
- Antique repairing.
- Titanium spectacle frames repairing.
- Possible weld metals : silver, yellow and white gold, PT, titanium.

MODEL	CML - W150
Laser wavelength	1064nm
Maximum Average Power	150W
Max pulse energy	100 J
Depth	0.1 - 3.3 mm
Pulse width	0.3 - 20ms
Frequency	0.5 - 20Hz
Spot Size	0.2 - 2 mm
Power Consumption	≤ 4kw
Power	220V +0% / 50Hz / 30A
Installation Space	Installation Location : 1 square meters
Environment	Clean, Dust free, Ideal with Air Condition
Temperature	13°C to 22°C

Karat Analyzer
GT Series

Application
- Buying Old Gold
- Jewellery Showrooms
- Bank & Financial Institution
- Money Lenders

Technology
Evaluating the purity of Gold and other metals by measuring the specific gravity of the sample, and distinguish the real precious metal from the fake material.

Ease
Easy to use & operate.
Hassle free measuring through inbuilt software for measuring.

Advantages
- To Detect Fake Gold Jewellery
- Precious Metal Karat Tester Evaluating the purity of GOLD in Percentage / Karat
- No more stains and scratches left on your Gold after testing.
- Wide karat display from 9K to 24K and Percentages of purity.
- Other precious metals such as Platinum and Silver can be tested by Optional mode.
- Can be used as a normal scale or Densimeter.

FUNCTIONS :
GOLD :
- It gives purity measurement between 9 to 24 karat with increment of 1 Karat. It also gives you result in % at the same time.
- User can select either copper or silver individually as mix material in GOLD for purity measurement.

PLATINIUM :
- It gives purity measurement between 600 to 1000 pt with increment of 50pt. It also gives you result in % at the same time.
- User can select either palladium or Ruthenium or Cobalt individually as mix material in PLATINUM for purity measurement.

LIMITATIONS
The Karat Analyzers cannot test the samples accurately that are
- With holes or hollow in nature
- With any stones or diamond
- Mixed with metals which has very close density to gold and Platinum

MODEL	CY 323GT	CY 613GT	CG612GT	CG 3102GT
Capacity	320 g	610 g	610 g	3100 g
Weighing Redability	0.001 g	0.001 g	0.01 g	0.01 g
Purity Karat	Gold 9 -24 Karat with increment of 1 Karat / Platinium 600-1000 pt with increment 0f 50 pt, % and Density			
Minimum Sample Weight	2g	2g	5g	10g
Weigh in Air	108 x 100			160 x 140
Weight in Water	100 x 92			160 X 140
Standard Air	Windshield open from top side		No	No
Display	Bright LCD Display with LED backlite			
Operating Temperature	10°C to 30°C			
Dimension (WxDxH)	342 x 212 x 270			342 x 212 x 230
Power Supply	AC Adapater 100V- 240V +/- 20% 50-60Hz			
Net Weight with Packing	8.0 kg			5.5 kg
Packing Dimension	500 x 380 x 510			500 x 380 x 230

Ring Engraving Machine

CPM-R

+100 Satisfied
Installation within India

Features :

1. Compact design takes up a small working space, ultra-low power consumption of 75W. Suitable for space constrained retail shop and jewellery factories.
2. WINDOWS based CitizenMark engraving software is developed by our company. CitizenMark features are easy to use, fully functional. CitizenMark uses all WINDOWS based TrueType fonts. Supports bold, italic, underlining engraving. Able to read monochrome BMP images.
3. Minimum height of 0.5mm for English characters.
4. Uses 9 angle positioning system, to ensure a high degree of engraving accuracy.
5. Adjustable engraving intensity and depth of up to 0.3mm or more.
6. Repeatable engraving with repeat accuracy of up to 0.01mm and no ghosting effect.
7. High brilliance shiny finishing for marked out designs with no additional polishing.

Flexibility

CPM-R is working with all the metals and have the ability to engrave inside, outside of the rings and bengles and it working on 360° degree around cylindrical items.

Ease

It is easy to setup & use with computer.

Technology

CPM-R is Needle Marking Machine, Specially design for Finger Rings & Bangles for inside & outside marking.

The New Generation C-Mark CPM-R Computerised Engraving Machine gives you professional engraving and personalisation solution at an affordable price.

Advantages

- Very easy & convenient to use.
- Can Create your own fonts.
- User friendly software.
- Compact & Space Saving.
- No hidden Maintenance Cost.

Application for Jewellery Industry

CPM-R machine can be used for marking following description

- Diamond Ct / Weight
- Gold Kt / Weight
- Logo
- Bill No.
- Manufacturers Details
- Wedding Name
- Two Tone (Bengles)
- Design Code
- Ideal for Jewellery Showroom & Gift Centres.
- Beads Wt. (Mangal Sutra)

and so many other commercial use.

MODEL	CPM-R
Power consumption	75W
Min. character size	0.5mm - 15mm
Size per dot	0.08-0.15mm
Marking dept	0.05-0.50mm
Rotary mark	360°
Marking type	Inside / Outside finger ring/bangle Marking
Inside ring size marking	12-70mm
Outside ring size marking	15-85mm
ring width	20mm
Font	Windows based Fonts
Software	CITIZEN mark
Power supply	AC 220V (110V option) 50-60Hz
Machine dimension	385(L) x 150 (W) x 255(H)mm
Weight	10.0Kg

Multi Engraving Marking
CPM-M

All in One...

The New Generation C-Mark **CPM-M** Computerised Engraving Machine gives you professional engraving and personalisation solution at an affordable price.

Features :

1. Compact design & ultra-low power consumption of 75W. Suitable for space constrained retail shop space and jewellery factories.
2. WINDOWS based CitizenMark features are easy to use, fully functional. CitizenMark uses all WINDOWS based TrueType fonts. Supports bold, italic, underlining engraving. Able to read monochrome BMP images.
3. Uses 9 angle positioning system, to ensure a high degree of engraving accuracy.
4. Adjustable engraving intensity and depth of up to 0.3mm or more.
5. Repeatable engraving with repeat accuracy of up to 0.01mm and no ghosting effect.
6. High brilliance shiny finishing for marked out designs with no additional polishing.

Flexibility

CPM-M Multi-Function engraving machine, Any fonts and pictures can be engraved inside and outside of the rings, bangles, and on pendants.

Ease

It is easy to setup & use with computer. U can also mark all shapes, ring, bangles, pendants with multi machine.

Technology

CPM-M is Needle Marking Machine, Specially design for Finger Rings, Bangles for inside & outside marking & Flat Surface Pendants etc...

Advantages

- All in one, able to mark almost all sizes flat to circular
- Very easy & convenient to use.
- Can Create your own fonts.
- User friendly software.
- No hidden Maintenance Cost.

Application for Jewellery Industry

CPM-M machine can be used for marking following description

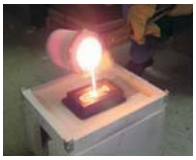
- Diamond Ct / Weight
- Gold Kt / Weight
- Logo
- Bill No.
- Manufacturers Details
- Wedding Name
- Design Code
- Two Tone (Bengles)
- Beads Wt. (Mangal Sutra)

and so many other commercial use.

MODEL	CPM-M
Power consumption	75W
Min. character size	0.5mm - 15mm
Size per dot	0.08-0.15mm
Marking depth	0.05-0.50mm
Rotary mark	360°
Marking type	Inside / Outside finger, Bangles, Flat
Inner Circle Sculpture Range	12-70mm
Outer Ring Sculpture Range	15-85mm
Pendant Sculpture Range	80 mm x 50 mm
ring width	20mm
Font	Windows based Fonts
Software	CITIZEN mark
Power supply	AC 220V (110V option) 50-60Hz
Machine dimension	300(L) x 300 (W) x 280(H)mm
Weight	14.0Kg

Melting Machines

Induction Melter
CMI Series



Applications:
- Gold Casting
- Chain Making
- Gold Refining
- Jewellery Manufacturing Factories
- Jewellery Showrooms

Induction Technology
Induction melter with Latest advance solid state IGBT Technology is an electrical furnace in which the heat is apply by induction heating of metal.

Advantages
- Medium frequency induction melting gives fast melting & Homegeneous mixing of metals.
- It Saves power.
- It minimize maintenance and maximizes production.
- High efficiency and single melting will be not longer than 10-15mins.
- Any environment easily adopted including high vacuum.
- Less cumbersome process & easy to operate.
- Highly compact design hence occupy smaller area.

Specification of Induction furnace
- Power Output 1kw to 50kw depending on the application.
- Frequency low, medium & high from 3khz to 45khz depending on the application.
- Controller PID based solid state controller ± 1°C.
- Coil Assembly.
  OFHC copper coil with either non-conducting sleeve or ceramic bits or embedded in ceramic cement or bare.
- Crucible & coating
  standard or custom made graphite crucible to meet your needs state-of-art ceramic coatings that can withstand upto 1400°C for minimal carbon contamination in the melt.
- Frame & structure mild steel with powder coating
- Installation requirements: Water-in line (at least with 1kg/Cm² pressure), water drain out (alternately close circuit chiller unit can be used) and Temp gives safe & shock proof outer body.

Resistance PID Melter
CMP Series

Technology
Resistance Coil base PID Melting.

Advantages
- Small & Space Savings.
- Easy to Operate & maintain
- Low maintenance heating element.
- Safe & shock hazard free.
- Quality uniform heating.

Features :
- PID digital temperature controller
- Heat On/Off indicator
- Transformer based (low voltage) Nichrome, Lanthal (DST or A1) heating coils are used
- Solid state relay provides zero crossing switching for enhancing the life of the coil
- Fan is provided to keep the transformer cool
- High density ceramic-wool insulation prevents heat loss which in turn increases efficiency.
- Coils made with most reliable resistance wire
- Low voltage technology for high reliability (lower the voltage higher the life of coil)

MODEL	CMI 250	CMI 500	CMI 1	CMI 2	CMI 5	CMP 1	CMP 2
Capacity (Au)	250 g	500 g	1 kg	2 kg	5 kg	1 kg	2 kg
Technology	Induction	Induction	Induction	Induction	Induction	Resistance	Resistance
Power Consumption	2 kW	2.5 kW	4 kW	5 kW	7.5 kW	1.2 kW	1.8 kW
Maximum Temperature	1200°C	1200°C	1200°C	1200°C	1200°C	1150°C	1150°C
Temperature Time	10 mins.	10 mins.	10 mins.	10 mins.	10 mins.	15-20 mins.	15-20 mins.
Dimensions (inch)	20 x 14 x 15	20 x 14 x 15	15 x 15 x 27	18 x 18 x 29	24 x 24 x 32	12 x 12 x 18	12 x 12 x 18
Weight	30 kg	30 kg	35 kg	35 kg	50 kg	18 kg	27 kg
Crucible Water Circulations	4-5 litre/min.	4-5 litre/min.	5-6 litre/min.	5-6 litre/min.	10-15 litre/min.	N. A.	N. A.
Optional	Water Pump and Water Chillers / Temp. 1425°C available on request						

Ultrasonic Cleaners

Technology

Ultrasonic cleaning depends upon cavitation, the rapid formation and violent collapse of minute bubbles or cavities in a cleaning liquid. This agitation by countless small and intense imploding bubbles creates a highly effective scrubbing of both exposed and hidden surfaces of parts immersed in the cleaning solution. As the frequency increases, the number of these cavities also increases but the energy released by each cavity decreases making higher frequencies ideal for small particle removal without substrate damage.

with Steam Fresh

CD 4820 - 2.5 Ltr.

- Bigger tank upto 2.5 Ltr. with Special basket for cleaning.
- Small & Space saving ABS body Design.
- 5 step setting Timer Digital LED display for easy operation.
- Heat sensor upto 65°C& Timer Function available.
- Strong transducer for years of operations.
- Inside cleaning Tank of S.S. 304.
- Better PCB design. - quick & better cleaning speed.
- Detachable ground terminal cable more safe & convient.

YJ 5120-1 - 5 Ltr.

- Bigger tank upto 5 Ltr. with Special basket for cleaning.
- M.S. powder coating Housing for rugged conditions.
- Digital LED display for easy viewing.
- Ideal for any kind of difficult cleaning objects.
- Adjustable Heater & Timer Function available.
- Water spout for drainage.
- Strong transducer for years of operations.
- Inside cleaning Tank of S.S. 304.
- Better PCB design.
- Gives quick & better cleaning speed.
- Detachable ground terminal cable more safe & convenient.

YZ 5200DT - 10 Ltr.

- Bigger tank with upto 10Ltr. with special basket for cleaning.
- S.S. 304 outer & inner body Housing for rugged conditions.
- Digital LED display for easy viewing.
- Ideal for any kind of difficult cleaning objects.
- Adjustable Heater & Timer Function available.
- Water spout for drainage.
- Strong transducer for years of operations.
- Better PCB design. - quick & better cleaning speed.
- Detachable ground terminal cable more safe & convenient.

Special basket for cleaning

Adjust Time and Temp.

Waterspout

MODEL	CD 4820	YJ 5120 - 1	YZ 5200 DT
Volume (Ltr.)	2.5Ltr.	5 Ltr.	10 Ltr.
Voltage	AC 220V, 50 / 60 Hz		
Ultrasonic Power (W)	90 W	120 W	240 W
Heat Power	80 W	75 W	225 W
Adj. Power (%)	10 - 40	20 - 80	20 - 80
Temp. Range (°C)	65°C	1 - 60 adjustable	1 - 60 adjust.
Tank Size (mm)	264 x 164 x 80mm	240 x 140 x 150	300 x 240 x 150
Unit Size (mm)	340 x 255 x 225mm	350 x 250 x 230	420 x 350 x 420
Gross Weight	2.5kg	5.5 - 6kg	10 kg
Display	LED Digital Indication		

Factory

Showrooms

Pharma

Dental Clinic

Chemical Lab

Repair Shop

Micro Balance
CM Series

Hallmarking Centres

+100 Installation

Ideal for Hallmarking Centres

- Filling
- Checkweighing
- Percentage
- Statistics
- Air Buoyancy Correction
- Infrared sensors
- Pipette calibration
- GLP procedures

Technology
Citizen Micro Balances is based on Electro magnetic force compensated principal. The compensated principal is superior to conventional systems due to improved dynamic & static performance.

Convenience
Citizen Micro Balances equip with ***Touch Screen Display*** with user friendly menu. User has access to multiple function & measuring units which allow user for smooth working requirements.

Auto-door
Citizen Micro Balances come with standard Infrared Sensor for Automatic Door functions which enable user for easy & hands free operations.

Internal Calibration
Citizen Micro Balances come with Automatic System of Internal Calibration with
- Inbuilt Standard Weight
- Initial Calibration
- Auto Calibration according to change in ambient temperature.
- User selected time calibration.

Design
Citizen's Micro Balance are equipped with esthetic, cylindrical shaped weighing chamber with glass draftshield. All elements of weighing chamber are manufacture form glass of metal which minimize the influence of electro static charges on weighing result.

Standard Features.
- Easy to use Large (5.7") Touch Screen display.
- Standard RS-232 C Interface / Ps2 Output.
- Various application other than just simple Weighing like
  - %
  - Filling
  - Check weighing
  - Statistic
  - Complies to GLP /GMP.
  - Easy to read Backlite Graphical Display.

MODEL	CM 2	CM 5	CM 11
Capacity	**2 gm**	**5 gm**	**11 gm**
Readability	**1 µg**	**1 µg**	**1 µg**
Repeatability (SD)	1 µg	1,6 µg	2 µg
Linearity (+/-)	3 µg	5 µg	6 µg
Eccentric Load Deviation	3 µg	5 µg	6 µg
Minimum Weight (usp)	3 mg	4,8 mg	6 mg
Pan Size (mm)	Ø 16 mm	Ø 26 mm	
Weighing Chamber	Ø 90 X 90 mm		
Stabilization Time	5 Sec.		
Calibration	Internal (Automatic)		
Power Supply	A/c Adapter 220 V / 50-60 Hz		
Display	5,7" Touch Screen		
Interface	2 x USB, 2 x RS232, Ethernet, 2 Inputs / 2 Outputs		
Net Wt. / Gross Wt.	10,2 / 14,7 Kg		
Packing Size	565 X 565 X 355 mm		
Working Temperature	$+5^{0}$c ~ $+25^{0}$c		

Analytical Balance

CX / CY Series

Hallmarking Centres

- Filling
- Checkweighing
- Percentage
- Statistics
- Air Buoyancy Correction
- Pipette calibration
- GLP procedures

Technology
All Citizen Analytical Balances are based on Electro magnetic force compensated principal. The compensated principal is superior to conventional systems due to improved dynamic & static performance.

Display
High Contrast Backlit LCD display is exceptionally easy to read under any room lighting conditions.

Calibration
This Balances are supplied with standard Calibration mass for the Internal / External Calibration.

Convenience
This Balances are equip with ***Large Draftshield Chambers*** which gives more space to user.

- For Assayer
- Hallmarking Centers
- Touch Balance

HIGH PERFORMANCE ANALYTICAL BALANCE

MODEL	CX 265	CX 301	CX 220	CX 120	CX 65	CY 204	CY 104	CY 64
Capacity	60/210 g	301 g	220 g	120 g	65 g	220 g	120 g	60 g
Readability	0.01 / 0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Repeatability (SD)	0.02/0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Linearity (±)	0.04/0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg
Pan Size (mm)	90 Ø							
Response Time	2 - 3 sec.							
Calibration	Internal					External		

Professional Carat Balances

CT Series

Years of Reliable Performance.....

Technology
All Citizen High Performance Carat Balances are based on Electro magnetic force componsation principal. The componsation principal is superior to conventional systems due to improved dynamic & static performance.

ELECTROMAGNETIC COMPATIBILITY
Metal housing eliminates the effects of thunderstorms or electromagnetic interference from other equipments.

Display
High Contrast Backlit LCD display is exceptionally easy to read under any room lighting conditions.

THE BRILLIANT MONO-TECH

Unique & unequalled high end MONO-TECH technology (Weigh Sensor)to match the highest international standards.

Calibration
This Balances are supplied with standard Calibration mass for easy External Calibration.

Convenience
This Balances are equip with ***Large Draftshield Chambers*** with gives more space to user. Diamonds can be easily place with Standard Carat Bowl with handle from the both sides.

Easy Data Transfer

Only a single cable is required to transfer balance data to MSExcel or other Windows application.

No troublesome interface attachment or software installation is necessary. This unique feature makes Citizen balance extremely convenient for data analysis.

Optional Citizen Data Printer is available for Printing Weighing Data with Time & Date Formulation.

Professional Carat Balance

MODEL	CT 253	CT 603	CT 1503DR	CT 1503	CT 1503C	CY 220	CY 360	CY 510	CY 1003
Capacity	250 ct	600 ct	600/1500 ct	1500 ct	1500 ct	1100 ct	1800 ct	2550 ct	5000 ct
Readability	0.001 ct	0.001 ct	0.001/0.01 ct	0.001 ct	0.001 ct	0.005 ct	0.005 ct	0.005 ct	0.005 ct
Repeatability (SD)	0.001 ct	0.001 ct	0.001/0.01 ct	0.001 ct	0.001 ct	0.005 ct	0.005 ct	0.005 ct	0.005 ct
Linearity (±)	0.002 ct	0.002 ct	0.002/0.02 ct	0.003 ct	0.003 ct	0.01 ct	0.01 ct	0.01 ct	0.01 ct
Pan Size (mm)	90 Ø					128 x 128			
Response Time	2 - 3 sec.								
Calibration	External				Internal	External			

Note : Optional Internal Calibration for All models

Basic Carat Balance

Technology
High Precision Loadcell Technology
Advantages
Standard Glass Windshield
Inbuilt rechargeable battery.
It works on table. (vibration free)
External Calibration.
Red LED display for easy viewing.

MODEL	CT 53	CT 10C	CT 20C
Capacity	50 ct	50 ct	100 ct
Readability	0.001 ct	0.005 ct	0.005 ct
Repeatability (SD)	0.001 ct	0.005 ct	0.005 ct
Pan Size (mm)	35 Ø	35 Ø	35 Ø

High Performance Jewellery Balances

Gold Balances

EXCELLENT READABILITY
High Contrast Backlit LCD display is exceptionally easy to read under any room lighting conditions.

THE BRILLIANT MONO-TECH
Unique & unequalled high end MONO-TECH technology (Weigh Sensor)to match the highest international standards.

ELECTROMAGNETIC COMPATIBILITY
Metal housing eliminates the effects of thunderstorms or electromagnetic interference from other equipments.

MODEL	CG 1202	CG 2202	CG 3102	CG 4102	CG 6102
Capacity	1200 g	2200 g	3100 g	4100 g	6100 g
Readability	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Repeatability (SD)	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Linearity (±)	0.02 g	0.02 g	0.02 g	0.02 g	0.02 g
Pan Size (mm)	190 X 205				
Response Time	2 - 3 sec.				
Calibration	External				

Standard Jewellery Balances

CTG Series

Technology
High Precision Load Cell Technology. 2,00,000 Internal Counts.

Display
Red LED Display for easy viewing Function.

Calibration
CTG Series Balances are equipped with standard Auto External Calibration.

Units
8 Different weighing units such as g, ct, %, Piece Counting etc...

Accurate
Precise and Accurate reading.

Compact
Compact and Space Savings with Folding windshield. Easy to Carry.

Conviency
CTG Series Balances are equipped with standard Inbuilt rechargeable battery for continuous use.

MODEL	CTG 302	CTG 602	CTG 1202	MP 300	MP 1000	MP 3000
Capacity	300 g	600 g	1200 g	300 g	1 Kg	3 Kg
Readability	0.01 g	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g
Repeatability (SD)	0.01 g	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g
Linearity (±)	0.02	0.02	0.02 g	0.02 g	0.2 g	0.2 g
Pan Size (mm)	118 Ø			155 x 155		
Response Time	2 - 3 sec.			2 -3 sec.		
Calibration	External			External		

Professional Silver Scales

SSH Series

Technology
All SSH Balances are based on Electro magnetic force compensated principal. The compensated principal is superior to conventional systems due to improved dynamic & static performance.

Calibration
This Balances are supplied with standard Calibration mass for the Auto External Calibration.

Convenience
You can weigh upto 30 kgs. with best accuracy (0.1g)

Display
High Contrast Backlit LCD display is exceptionally easy to read under any room lighting conditions.

Advantages
Ideal for Stock Counting.
Ideal for Bulk Weighing.
Tare Range upto Full Capacity.

MODEL	SSH 96	SSH 95	SSH 93	SSH 91	SSH 90
Capacity	10 kg	15 kg	35 kg	60 kg	100 kg
Readability	0.01 g	0.1 g	0.1 g	1 g	1 g
Repeatability (SD)	0.02 g	0.1 g	0.1 g	1 g	1 g
Pan Size (mm)			400 x 300		
Calibration	External				
Iunits of Measure	g, mg, ct, GN, mo, oz, dwt, T1T, t1H, t1S, mom, Bat, MS				
Power Supply	A/C Adapter 230 V - 115 V ± 20% 50 - 60 Hz				

Basic Silver Scales

Technology
High Precision Load Cell Technology.
3,00,000 Internal Counts.

Display
High Contrast backlite LCD Display for easy viewing Function.

Units
Different weighing units such as g, ct, %, Piece Counting etc...

Accurate
Precise and Accurate reading.

MODEL	CTG 3	CTG 6	CTG 15H	CTG 30	CTG 30H	CT 6000H	CT 8000H
Capacity	3 kg	6 kg	15 kg	30 kg	30 kg	6000 g	8000 g
Readability	0.1 g	0.5 g	0.5 g	1 g	0.5 g	0.1 g	0.1 g
Repeatability (SD)	0.2 g	1 g	1 g	2 g	1 g	0.2 g	0.2 g
Pan Size (mm)	230 x 300					172 X 172	
Response Time	2 - 3 sec.						
Calibration	External						

Optional Accessories

STATISTICAL PRINTER

Technology
24 Character per Line Dot Matrix Printer.

Standard Features
Can be connect with any Diamond & Jewellery Balances of CITIZEN. Date, Time, Statistic & Totalization function which enables for printing any Diamond & Jewellery Weights printouts.

It's provides easily readable records on normal paper which last for years.

It's universal interface allows you to attach all most every Brand Balances via RS232C Interface.

Complete documentation of all data including calibration, weighing results, correct date and time information even after power failure.

Weighing results can be statistically evaluated. Mean value and standard deviation as well as the total weight are automatically printed out due to built-in statistics and totalization function.

MODEL	CPR02
Printing Speed	Faster Than 1 line per second
Paper Type	normal Paper Roll, Wood Free Paper
Paper Size	Width: 57.5 +0.5mm. Core Diameter : 8mm Min.
Power Supply	AC Adapter, 100-270VAC, 50Hz - 60Hz
Interface	RS 232C
Working Temperature	5°C to 30°C, relative humidity:10%-80% (no condensation)
Dimensions (mm/inch) (LxWxH)	210 x 135 x 88.5 / 8.30' x 5.30' x 3.50'
Net Weight / Gross Weight	2.00 kgs / 2.00kgs

CALIBRATION WEIGHTS

E2/F1/F2/M1 class

REMOTE DISPLAY

CRD01

DENSITY KIT

CDK01

Citizen®
ISO 9001 : 2008 CERTIFIED

-: Our Precious Client :-

-: Hallmarking Centers :-

Perfect - Chennai / Pune / Coimbatore | Maaruthy - Pondichery | A1- Chennai
Mamta - Dombivali | Metro - Andheri | Shree Krishna - Mysore | Agneya - Cuddlore
Balaji - Eluru | J.S. - Ludhiyana | Chandigardh - Chandigardh | Bharat Assay - Chennai
Balaji - Trichy | Shraddha Ganesh - Manglore | Astha - Bhatinda | Mahalaxmi - Asansol
Super - Madurai | Mudra - Thrihhur | Quality - Calicut | Midaz - Banglore | Shivam - Delhi
Monarch - Delhi | Siddhant - Delhi | Radiant - Delhi | Nakoda - Mumbai | M.K. - Mumbai...

-: Citizen Setup :-

Head Office

R & D

Display Room

Service

Factory

We also undertake Hallmarking Projects

WORLD WIDE MARKETING

CITIZEN SCALE (I) PVT. LTD.

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